

CLAIMS

WHAT IS CLAIMED IS:

1 ~~1.~~ A method for transmitting packet data, comprising the
2 steps of:

3 monitoring packet data transmission traffic between a
4 first switch and a second switch;

5 establishing a switched virtual circuit (SVC) wherein a
6 first end of said SVC in said first switch is assigned a
7 virtual termination address, wherein said address is one of
8 a plurality of software generated dummy addresses created in
9 said first switch fabric;

10 receiving a request from an end user to transmit from
11 said first switch to said second switch; and

12 assigning said end user to said first end of said SVC.

1 2. The method as set forth in Claim 1 further comprises
2 utilizing a predetermined threshold value of said
3 transmission traffic to determine the number of
4 virtually terminated SVCs to be installed.

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1 3. The method as set forth in Claim 1 further comprising
2 the steps of:

3 receiving a request to disconnect said virtually
4 terminated SVC;

5 responsive to said request, disconnecting said first
6 end of said virtually terminated SVC from said end user; and

7 assigning said first end to one of said plurality of
8 dummy addresses, wherein said virtually terminated SVC
9 remains connected.

1 4. The method as set forth in Claim 3, further comprising
2 the step of:

3 responsive to said transmission traffic dropping below
4 a predetermined level, disconnecting said virtually
5 terminated SVC.

1 5. The method as set forth in Claim 1, wherein the step of
2 establishing further comprises utilizing a media gateway
3 controller to establish said virtually terminated SVC
4 between said first and second switch.

1 6. The method as set forth in Claim 1, wherein said media
2 gateway controller maintains a predetermined number of
3 virtually terminated SVCs until said transmission traffic
4 exceeds said threshold value.

1 7. The method as set forth in Claim 1, wherein said
2 plurality of dummy addresses is created by a media gateway.

1 8. The method as set forth in Claim 1, wherein said
2 network is a telecommunications network.

1 9. The method as set forth in Claim 1, wherein said
2 network is a computer network.

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1 10. In a network, a system for communicating packet
2 data between a first switch and a second switch in a
3 network, comprising:

4 means for monitoring packet data transmissions between
5 said first and second switches;

6 a media gateway in each of said first and second
7 switches for generating a plurality of dummy addresses in
8 the switch fabric of each of said first and second switch;

9 a media gateway controller for installing a switched
10 virtual circuit between said first and second switch; and

11 means for assigning one of said plurality of dummy
12 addresses to each of a first end and second end of said
13 switched virtual circuit.

1 11. The system as set forth in Claim 10, wherein said media
2 gateway in each of said first and second switches is capable
3 of establishing a predetermined number of said virtual
4 terminations in the switch fabric of each of said first
5 switch and said second switch.

1 12. The system as set forth in Claim 11, wherein said
2 monitoring means further comprises means for comparing a
3 threshold value of said packet data transmission to
4 determine a number of virtually terminated SVCs to be
5 installed.

1 13. The system as set forth in Claim 10, wherein said
2 controller further comprises:

3 means for receiving a request to disconnect said
4 virtually terminated SVC;

5 responsive to said request means for disconnecting said
6 first end of said virtually terminated SVC from said end
7 user; and

8 means for assigning said first end to one of said
9 plurality of dummy addresses, wherein said virtually
10 terminated SVC remains connected.

1 14. The system as set forth in Claim 10, wherein said
2 controller further comprises means for establishing and
3 maintaining said virtually terminated SVC between said first
4 and second switches.

1 15. The system as set forth in Claim 10, comprises means
2 for disconnecting said virtually terminated SVC when said
3 packet data transmission drops below a predetermined level.

1 16. The system as set forth in Claim 10, wherein said
2 controller is capable of maintaining a predetermined number
3 of virtually terminated SVCs until said packet data
4 transmission exceeds said threshold value.

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1 21. The method as set forth in Claim 19 further comprising
2 the steps of:

3 receiving a request to disconnect said virtually
4 terminated SVC; and

5 responsive to said request, disconnecting said second
6 end of said virtually terminated SVC from said end user and
7 assigning said second end to said one of a plurality of
8 dummy addresses, wherein said virtually terminated SVC
9 remains connected.

1 22. The method as set forth in Claim 19, wherein the step
2 of establishing further comprises:

3 utilizing a media gateway controller to establish and
4 maintain said virtually terminated SVC.

1 23. The method as set forth in Claim 19, further comprising
2 the step of:

3 responsive to said packet data transmission dropping
4 below a predetermined level, disconnecting said virtually
5 terminated SVC.

1 24. The method as set forth in Claim 19, wherein said media
2 gateway controller maintains a predetermined number of
3 virtually terminated SVCs as long as said transmission
4 traffic exceeds said threshold value.

1 25. The method as set forth in Claim 19, wherein said media
2 gateway controller maintains a predetermined number of
3 virtually terminated SVCs as long as said transmission
4 traffic exceeds said threshold value.

1 ~~26.~~ A method for communicating packet data between two
2 switches in a network, comprising:

3 monitoring packet data transmission traffic between a
4 first switch and a second switch;

5 utilizing a predetermined threshold value to determine
6 whether to add additional virtual circuits between said
7 first and second switches;

8 establishing at least one switched virtual circuit
9 (SVC), wherein a first end of said SVC in said first switch
10 and a second end of said SVC in said second switch are each
11 assigned a virtual termination address, wherein each said
12 address are software generated dummy addresses each created
13 in said first and second switch fabric;

14 receiving a request from a first end user to transmit
15 from said first switch to said second switch; and

16 assigning said first end user to said first end of said
17 SVC and a second end user to the second end of said SVC;

18 receiving a disconnect signal from one of said end
19 users;

20 disconnecting each of said first and second end users
21 from said SVC;
22 connecting said first and second end of said SVC to
23 said virtual termination addresses; and
24 tearing down said virtually terminated SVC if said
25 packet data transmission drops below a predetermined level.

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